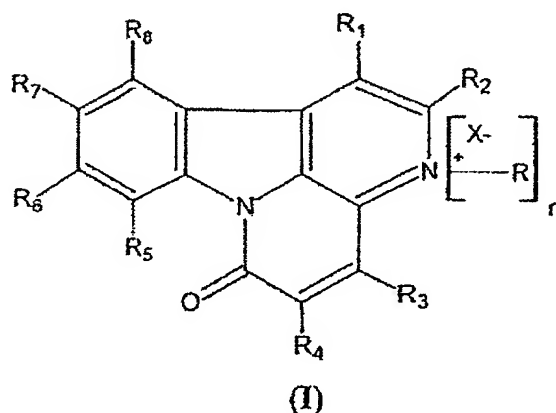


CLAIMS

1. The use, for producing a medicinal product intended for the treatment of trypanosomiasis, of a
5 compound corresponding to formula (I):



in which R₁, R₂, R₃, R₄, R₅, R₆, R₇ and R₈ represent, independently of one another:

- 10 • a hydrogen atom
- a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group,
- a halogen atom chosen from chlorine, fluorine, bromine and iodine,
- 15 • a halo(C₁-C₁₂)alkyl group in which the alkyl chain may be linear, branched or cyclic, and saturated or unsaturated, and the halogen atom(s) is (are) chosen from fluorine, chlorine, bromine and iodine,
- 20 • a hydroxyl function,
- a nitro function -NO,
- a cyano function -CN,
- a function -SH,
- a carboxylic acid function -COOH,
- 25 • an amide function -CONH₂,
- an amine function -NH₂,
- a C₁-C₁₂ alkoxy function in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,

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- a C₁-C₁₂ alkyl ester function, in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,
 - 5 • a secondary or tertiary alkylamide function, in which the C₁-C₁₂ alkyl group(s) may be linear, branched or cyclic, and saturated or unsaturated,
 - 10 • a secondary or tertiary alkylamine function, in which the C₁-C₁₂ alkyl group(s) may be linear, branched or cyclic, and saturated or unsaturated,
 - 15 • a C₁-C₁₂ alkylthio function, in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,
 - 20 • a C₂-C₆ heterocyclic group containing 1 to 4 hetero atoms chosen from sulfur, nitrogen and oxygen,
 - 25 • a group -SO₂-NR'R'' or a group -NR'-SO₂-R'', in which R' and R'' represent, independently of one another, a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group;
n represents 0 or 1;
R represents a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group;
30 X⁻ represents an anion that can be chosen from inorganic or organic anions.
2. The use as claimed in claim 1, characterized in that the compound of formula (I) is canthin-6-one.
- 30 3. The use of canthin-6-one for producing a medicinal product intended for the treatment of trypanosomiasis as claimed in claim 2, characterized in that the canthin-6-one is present
- 35 in the form of a plant extract.
4. The use as claimed in claim 3, characterized in that the canthin-6-one is present in the form of

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an extract of a plant chosen from: *Ailanthus altissima*, *Brucea antidysenterica*, *Eurycoma harmandiana*, *Peganum nigellastrum*, *Zanthoxylum elephantiasis* and *Zanthoxylum chiloperone*.

5

5. The use as claimed in claim 4, characterized in that the canthin-6-one is present in the form of an extract of *Zanthoxylum chiloperone* var. *angustifolium*.

10

6. The use as claimed in any one of claims 1 to 5, for producing a medicinal product intended for the treatment of trypanosomiasis in its chronic phase and its acute phase.

15

7. The use as claimed in any one of claims 1 to 5, for producing a medicinal product intended for the treatment of Chagas' disease.

20

8. The use as claimed in any one of the preceding claims 1 to 6, characterized in that it is intended for the treatment of trypanosomiasis caused by the agent *Trypanosoma brucei*.

25

9. The use as claimed in any one of the preceding claims 1 to 7, characterized in that it is intended for the treatment of trypanosomiasis caused by the agent *Trypanosoma cruzi*.

30

10. The use as claimed in claim 5, characterized in that the plant extract containing the canthin-6-one is obtained by means of a method comprising a first step that consists in grinding the dried bark of the trunk of *Zanthoxylum chiloperone* var. *angustifolium*, and then in treating it with an aqueous alkaline solution.

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11. The use as claimed in claim 10, characterized in

that the plant extract containing the canthin-6-one is obtained by means of a method comprising a second step consisting of extraction with a chlorinated organic solvent.

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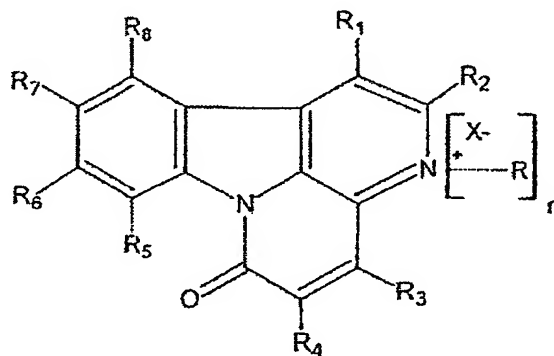
12. The use as claimed in any one of the preceding claims 1 to 11, characterized in that the medicinal product is intended to be administered at a dose of between 0.01 and 100 mg/kg/d of compound of formula (I), preferably between 0.1 and 50 mg/kg/d, even more preferably between 1 and 20 mg/kg/d.

10

13. The use as claimed in any one of the preceding claims, characterized in that the medicinal product is intended to be administered orally.

15

14. A compound corresponding to formula (I):



(I)

20 in which R₁, R₂, R₃, R₄, R₅, R₆, R₇ and R₈ represent, independently of one another:

- a hydrogen atom
- a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group,
- 25 • a halogen atom chosen from chlorine, fluorine, bromine and iodine,
- a halo(C₁-C₁₂)alkyl group in which the alkyl chain may be linear, branched or cyclic, and saturated or unsaturated, and the halogen

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- atom(s) is (are) chosen from fluorine, chlorine, bromine and iodine,
- a hydroxyl function,
 - a nitro function -NO,
 - 5 • a cyano function -CN,
 - a function -SH,
 - a carboxylic acid function -COOH,
 - an amide function -CONH₂,
 - an amine function -NH₂,
 - 10 • a C₁-C₁₂ alkoxy function in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,
 - a C₁-C₁₂ alkyl ester function, in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,
 - 15 • a secondary or tertiary alkylamide function, in which the C₁-C₁₂ alkyl group(s) may be linear, branched or cyclic, and saturated or unsaturated,
 - 20 • a secondary or tertiary alkylamine function, in which the C₁-C₁₂ alkyl group(s) may be linear, branched or cyclic, and saturated or unsaturated,
 - a C₁-C₁₂ alkylthio function, in which the alkyl group may be linear, branched or cyclic, and saturated or unsaturated,
 - 25 • a C₂-C₆ heterocyclic group containing 1 to 4 hetero atoms chosen from sulfur, nitrogen and oxygen,
 - 30 • a group -SO₂-NR'R'' or a group -NR'-SO₂-R'', in which R' and R'' represent, independently of one another, a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group;
 - n represents 0 or 1;
 - 35 R represents a saturated or unsaturated, linear, branched or cyclic C₁-C₁₂ alkyl group;
 - X⁻ represents an anion that can be chosen from inorganic or organic anions,

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at least one of R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 and R_8 being different from H, or else $n = 1$.

15. The compound as claimed in claim 14, characterized
5 in that X^- is chosen from: the Cl^- ion, the Br^- ion, the I^- ion, the S^- ion, the PO_3^- ion, the NO_3^- ion, the acetate ion, the oxalate ion, the tartrate ion, the succinate ion, the maleate ion, the fumarate ion, the gluconate ion, the citrate
10 ion, the malate ion, the ascorbate ion and the benzoate ion.
16. The compound as claimed in claim 14 or claim 15,
15 characterized in that one or more of the conditions below are satisfied:
- R_3 represents an NH_2 group or a C_1 - C_{12} alkylamine group or a C_1 - C_{12} alkylamide group or a C_2 - C_6 heterocycle comprising at least one amine function;
 - 20 - R_4 represents a hydroxyl group or a C_1 - C_{12} alkoxy group;
 - $R_1 = R_2 = R_5 = R_6 = R_7 = R_8 = H$.
17. The compound as claimed in any one of claims 14 to
25 16, characterized in that one or more of the conditions below are satisfied:
- R_3 represents an NH_2 group or a C_1 - C_6 alkylamine group or a C_1 - C_6 alkylamide group or a C_2 - C_6 heterocycle comprising at least one
30 amine function;
 - R_4 represents a hydroxyl group or a C_1 - C_6 alkoxy group;
 - $R_1 = R_2 = R_5 = R_6 = R_7 = R_8 = H$.
- 35 18. The compound as claimed in any one of claims 14 to 17, characterized in that one or more of the conditions below are satisfied:
- R_3 represents an NH_2 group;

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- R_4 represents an OCH_3 group;
 - $R_1 = R_2 = R_5 = R_6 = R_7 = R_8 = H$.
19. The compound as claimed in any one of claims 14 to
5 18, characterized in that $R_1 = R_2 = R_3 = R_4 = R_5 = R_6 = R_7 = R_8 = H$ and $n = 1$, and R is a C_1 - C_6 alkyl group.
20. The compound as claimed in any one of claims 14 to
10 18, characterized in that it is chosen from:
- 4-aminocanthin-6-one;
 - N-methylcanthin-6-one iodide;
 - 5-methoxycanthin-6-one.
- 15 21. A medicinal product, characterized in that it comprises a compound as claimed in any one of claims 14 to 20, in a pharmaceutically acceptable support.